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PATENT, TRADEMARK & COPYRIGHT LAW

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OUR REF. NO.

6560-1

November 9, 1998

Honorable Commissioner of Patents
and Trademarks
Washington, D.C. 20231

Dear Sir:

Enclosed please find a utility patent application for filing as identified below:

Inventor(s): Robert N. YONOVER

Title: INFLATABLE TRANSPORTABLE WATER CRAFT FOR SURVIVAL OR RECREATIONAL APPLICATIONS

Drawings: Six (6) sheets depicting Figures 1, 2A, 2B, 3, 4A, 4B, 4C, 5A, 5B, 6A, and 6B.

Small Entity

Other

(Verified Statement Attached)

Basic Fee -----	\$395.00	Basic Fee -----	\$790.00
<input type="checkbox"/> Claims over 20 x \$11.00----	\$ 88.00	<input type="checkbox"/> Claims over 20 x \$22.00---	\$
<input type="checkbox"/> Independent claims over		<input type="checkbox"/> Independent claims over	
3 x \$41.00 -----	\$	3 x \$82.00 -----	\$
<input type="checkbox"/> Mul. Dept. Claims \$135.00-\$		<input type="checkbox"/> Mul. Dept. Claims \$270.00-\$	
TOTAL FILING FEE \$483.00		Assignment Recordation Fee \$	
		TOTAL FILING FEE \$	

This is a nonprovisional application based on Provisional Application Serial No. 60/065,162, filed November 12, 1997.

A check in the amount of \$**483.00** is attached to cover the filing fee. If this amount should be insufficient, then please debit Deposit Account No. 19-2105 and notify the undersigned in due course.

Do not charge any fees to Deposit Account No. 19-2105.

This application is being filed under Rule 53.

Respectfully submitted,

SHLESINGER, ARKWRIGHT & GARVEY LLP

By


Josefino P. de Leon
Reg. No. 33,166

lm

Applicant: ROBERT N. YONOVER

Filed: Herewith

For: INFLATABLE TRANSPORTABLE WATER CRAFT FOR SURVIVAL OR RECREATIONAL APPLICATIONS

**VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS
37 CFR 1.9(I) AND 1.27(b) - Independent Inventor**

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled INFLATABLE TRANSPORTABLE WATER CRAFT FOR SURVIVAL OR RECREATIONAL APPLICATIONS described in the specification filed herewith.

I have not assigned, granted, conveyed, or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

I acknowledge the duty to file, in this application or patent, notification to any change in status resulting in loss of entitlement to small entity status prior to payment, or at the time of paying, the earliest of the issue fee or any maintenance fees due after the date on which status as a small entity is no longer appropriate (37 CFR 1.28(b)).

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

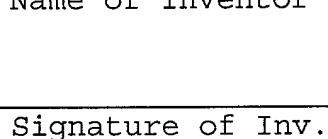
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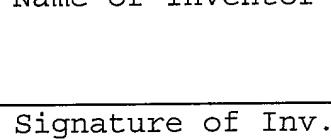
Name of Inventor

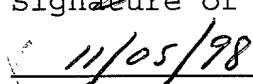
Name of Inventor

Name of Inventor


Signature of Inv.


Signature of Inv.


Signature of Inv.


11/05/98

Date

Date

Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : November 9, 1998
Robert N. YONOVER :
Serial No.: N/A :
Filed: Herewith :
For: INFLATABLE TRANSPORTABLE :
WATER CRAFT FOR SURVIVAL OR :
RECREATIONAL APPLICATIONS :

PRELIMINARY AMENDMENT

Honorable Commissioner of Patents
and Trademarks
Washington, D.C. 20231

Dear Sir:

Please amend the above-identified application as follows:

IN THE CLAIMS:

Claim 18, delete line 5.

Please add the following claim:

28. A water craft as in Claim 15, and further comprising:

a) a relief operably associated with said housing.

REMARKS

Applicant has amended Claim 18 for minor informality and added Claim 28 to further define the invention.

It is believed that no fee is due; however, should that be incorrect, please charge our Deposit Account No. 19-2105 and informed the undersigned.

Respectfully submitted,



Josefino P. de Leon

Reg. No. 33,166

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ROBERT N. YONOVER

INFLATABLE TRANSPORTABLE WATER CRAFT FOR
SURVIVAL OR RECREATIONAL APPLICATIONS

5

RELATED APPLICATION

This is a nonprovisional application which claims priority from provisional application serial no. 60/065,162, filed November 12, 1997.

FIELD OF THE INVENTION

10 The present invention relates generally to devices to help provide flotation, protection, mobility, and signaling capability to persons stranded at sea and particularly to devices that can inflate into a paddling water survival craft that can be stowed on a person, boat, aircraft, or the like,
15 until needed in an emergency situation or for use as a recreational device.

BACKGROUND OF THE INVENTION

The present state-of-the-art in recreational and military one-person life rafts consist of circular or elongate-shaped
20 structures that the survivor places his body within. The rafts are subject to the uncontrollable wind and water currents and, therefore, the survivor has no chance of moving the raft towards

a land mass or an approaching ship or aircraft for visual location and subsequent rescue. The present rafts also provide little or no protection against the elements, resulting in severe solar ultraviolet exposure and loss of body heat

5 resulting from cold air/water masses. Furthermore, the most commonly used military one-person life raft is designed for the survivor to be submerged in water at all times. The current one-person life rafts also provide no integral means for simply providing a continuous emergency signal to alert search parties

10 of his whereabouts.

My invention enables a person that finds himself lost at sea to quickly and simply attain flotation, protection, mobility, and signaling capabilities to increase his chances of sustaining his life functions and achieving a safe rescue from

15 his emergency situation. The invention described herein can also be used for recreational purposes wherein water flotation and mobility will be provided in a simple and inexpensive manner. When not in use, the device can be stowed or carried in a compact fashion.

20

OBJECTS AND SUMMARY OF THE INVENTION

It is an object of my invention to provide a one-person inflatable water craft which, when deployed, will provide a life support module that will increase a person's chances of

25 surviving the condition of being lost at sea.

It is another object of my invention is to provide an inflatable survival craft that can be paddled by a survivor's arm movements in order to achieve mobility to get to land or in the path of a search boat or plane.

5 It is still another object of my invention is to provide a survival craft that provides an extremely rigid structure when inflated with air, thereby providing a stable platform for supporting the user when paddling in a prone face-down position.

10 It is yet another object of my invention is provide an inflatable survival craft that includes a thermal protective covering to protect the survivor from sun exposure and cold temperatures, thereby keep the survivor's body temperature from becoming too hot or too cold that could lead to a serious life threatening condition.

15 It is another object of my invention is to provide an inflatable survival craft that includes a visual locating device in the form of a long brightly colored streamer that will float on the water to make the survivor more visible to search parties.

20 It is another object of my invention is to provide a one-person survival craft that can be folded when deflated and stowed in a protective case.

25 It is still another object of my invention is to provide an inflatable craft that can be used for paddling and/or wave surfing for recreational purposes.

In summary, my invention provides an inflatable one-person survival craft that enables a survivor to paddle to safety, while providing thermal protection for his life functions and continuous passive emergency signaling to alert search parties 5 of their location. The survival craft may be automatically deployed from its compact stowage case by a compressed gas source. A manual hand pump is provided as a source for alternative and supplemental air pressure. The survival craft is constructed with an internal structure, such as a drop-stitch 10 neoprene layered material, that provides for an extremely rigid structure when pressurized with air.

In broad sense, my invention is a water craft, comprising an inflatable, elongate and rigid housing when inflated, having substantially parallel top and bottom walls. The top wall 15 includes a flat surface configured to support a user lying in a prone face-down position. The housing is configured such that a user in the prone face-down position can paddle alternately with his hands toward a direction.

These and other objects of the present invention will 20 become apparent from the following detailed description.

BRIEF DESCRIPTIONS OF THE DRAWINGS

Figure 1 is a perspective view of a one-person survival craft made in accordance with the present invention.

Figures 2A and 2B are top and side elevational views of the 25 one-person survival craft of Fig. 1.

Figure 3 is a fragmentary enlarged perspective view of the rear portion of the craft of Figure 1.

Figures 4A, 4B and 4C are fragmentary cross-sectional views taken along line 4-4 in Figure 2A, showing internal structures 5 of the craft.

Figures 5A and 5B are perspective views of the craft of Figure 1 shown deployed on water with a user lying prone on top.

Figure 6A is a perspective view of a container for the craft of Figure 1 when deflated and stowed.

10 Figure 6B is a perspective view of the craft of Figure 1 in the folded and stowed form.

DETAILED DESCRIPTION OF THE INVENTION

A survival water craft 2 is disclosed in Figure 1. The craft 2 includes an inflatable, elongate and rigid housing 4 when inflated, having a top wall 6 and a bottom wall 8, as best 15 shown in Figures 2A and 2B. The top and bottom walls 6 and 8 are joined together along their periphery by conventional means to provide an airtight construction. The housing 4 may be made of nylon material, PVC, urethane or other materials that can be 20 joined together at the edges by heat sealing for mass production purposes. The housing 4 is configured such that a user lying in a prone position on the top wall 6 would be able to reach over the sides 10 of the craft to paddle alternately with his hands toward land or shipping lanes. The housing 4 has front portion 25 12 which is at an angle with the rest of the housing to

advantageously allow the craft to skim over the water. The top wall 6 includes a non-skid material 14 to minimize the user from sliding off ~~from~~^{the (ay)} craft. A pair of fins 16 are secured to the bottom wall 8 at the rear portion of the housing 4 to provide 5 for directional stability and tracking purposes as the user paddles the water craft by arm motions, similar to paddling a surfboard. Any number of fins 16 may be used. For example, a single fin disposed centrally at the bottom rear end of the housing 4 may be used.

10 A plurality of attaching rings 18 are secured at a number of places along the periphery of the housing 4 with reinforcing straps 20. A compass 22 is secured to the front end of the housing 4 on the top wall 6 by standard means such that by hook-and-loop (VELCRO) fastener 24. The compass 22 allows the user 15 to maintain a certain direction during paddling to reach land or head toward known shipping lanes or search parties.

 A thermal protective covering 26 is provided to shelter the user from the extreme elements and thereby increase his chances of survival. The protective covering 26 protects the user from 20 sun exposure and cold temperatures. The protective covering will keep the user's body temperature from becoming too hot or too cold, thereby preventing serious life threatening condition. The protective covering 26 may be made in any shape, as long as it covers at least the user's back and head while the user is 25 paddling in the prone position. For illustrative purposes, the protective covering 26 is disclosed in the shape of a poncho

including a pair of sleeves 28, a body portion 30, and a hood 32 with a visor 34. The visor 34 is integral to the thermal protective covering 26 to protect the user from solar radiation and water projected onto user's face. Adjustable quick-release attaching straps 36 made of VELCRO fasteners are provided for removably securing the covering 26 to respective attaching rings 18. The attaching straps 36 allow the user to release the protective covering 26 from the craft 2 when necessary. The straps 36 allow positive coverage of the user's body, preventing wind or wave to blow off the covering.

Reflective patches 38 are provided on the back side of the covering 26 to increase the visibility of the user to a rescuer by visual and instrumental detection. The patches 38 may be made of retro-reflective and IR (infra-red) reflective tape.

Arm straps 40 provide means for adjusting the opening of the sleeves 28 to the size of the user's lower arms. The arm straps 40 enable the user's arms to be comfortably fitted inside the sleeves 28 during paddling. The arm straps 40 are adjustable to permit the thermal protective covering to be fastened and adjusted snugly around the user's arms.

The protective covering 26 is reversible with one side being brightly colored to increase the user's visibility to a rescuer and the other side being dull when visibility is not required. A clip 42 removably secures the covering 26 to the attaching ring 18 when the covering 26 is in a stowed position, generally indicated at 44, as best shown in Figure 1. The

protective covering 26 is rolled up and takes the form generally indicated at 44 when not in use.

A passive signaling device 46 is disposed in a stowed position at the rear end of the craft 2. The signaling device 5 46 is secured by attaching cords 48 secured to the attaching ring 18, as best shown in Figure 1. The signaling device 46 deploys into a long streamer adapted to float on the water. The streamer is brightly colored to attract the attention of the rescuer. An example of the signaling device 46 is disclosed in 10 U.S. Patent No. 5,421,287, which is incorporated herein by reference. A cover 50 keeps the signaling device 46 in its stowed position. The cover 50 is provided with a VELCRO fastener 52. A strap 54 allows for easy lifting of the cover 50 when deploying the signalling device 46.

15 An accessory package 56 is disposed at the rear end portion of the housing 4. The package 56 contains a gas cylinder 58 operably connected to an inlet valve 60 of the housing 4. An operating lever 62 provides for release of the pressurized gas into the interior of the housing 4 for quick 20 inflation. The operating lever 62 is operatively connected to a valve (not shown) which may be water-activated for dispensing the compressed gas cylinder upon contact with water in case the user is injured or incapacitated. The package 56 also contains a hand pump 64 as a back-up or supplement to the compressed gas 25 inflation and to provide for periodic re-inflation of craft upon partial pressure loss. The package also contains a patch kit 66

to enable the user to make emergency repair to any tear or
breaks in the housing 4. The housing 4 is provided with a
relief valve 68 to advantageously ensure that the craft does not
rapture from too much pressure from over inflation from the gas
5 cylinder 58 or from differential temperatures shrinkage. A
cover 70 protects the contents of the package 56 when not in
use.

A leash 72 with an ankle strap 74 is secured to the
attaching ring 18 and to the user's foot. The leash 72 insures
10 that the craft 2 does not become accidentally separated from the
user due to a large wave, a gust of wind or any other outside
influence.

The top and bottom walls 6 and 18 are connected to each by
a plurality of a nylon strings 76 distributed throughout the
15 interior surfaces of the top and bottom walls. The strings 76
act as spacers between the top and bottom walls 6 and 8 such
that when the housing 4 is inflated to high pressure, the top
and bottom walls maintain relatively flat and parallel surfaces,
without bulging. The strings 76 allow the inflated craft to be
20 extremely rigid when inflated with air. A relatively flat upper
and lower walls 6 and 8 are required to make the craft stable in
water and provide a comfortable supporting surface for the user.

A honeycomb structure 78 may be used in lieu of the nylon
strings 76, as best shown in Figure 4B. The honeycomb structure
25 78 may be in the form of short sleeves distributed throughout
the interior volume of the housing 4. Each honeycomb structure

would be in fluid communication with each other so that only a single inlet valve would be needed to inflate the craft.

Stitching 80 or any other standard means may be used to secure the honeycomb structure 78 to the top and bottom walls 6 and 8

5 and to adjacent honeycomb structure.

Tubular structure 82 may also be used instead of the nylon string 72 or the honeycomb structure 78, as best shown in Figure 4C. The tubular structure may be in the form of short sleeves distributed throughout the interior volume of the housing 4.

10 Stitching 84 or other standard means may be used to secure the tubular structure 82 to the top and bottom walls 6 and 8 and to adjacent tubular structure. Each tubular structure would be in fluid communication with each other so that only a single inlet valve would be needed to inflate the craft.

15 It should be understood that the above discussed internal structures are connectors, since they connect the top and bottom walls together. Any other internal structure would be sufficient that will enable the craft to be inflated to high partial pressures to provide a rigid support platform for the 20 user and maintain the top and bottom walls 6 and 8 relatively flat and parallel to each other.

A seal tape 86 may be used to secure the top and bottom walls 6 and 8 at their peripheral edges. Heat sealing the outer edges the walls 6 and 8 may be also used.

25 The survival water craft 2 is disclosed deployed in Figure 5A on a body of water with the user laying on top of the

housing 4. The width of the housing 4 is such that the user is able to alternately paddle with his hands to propel the craft forward. The thermal covering 26 is shown being used to protect the user's body and head from life-threatening elements. The 5 reflective patches 38, which have retro reflective and infrared reflective properties, provides for visual and instrumental detection by search parties. The visor 34 protects the user from solar radiation and water projected onto the user's face. The arm straps 40 permit the thermal protective covering 26 to 10 be fastened and adjusted snugly to the user. The attaching straps 36 may be adjusted to adjust the fit of the protective covering on the user and to permit the user to leave the craft 2 if required. The signaling device 46 provides a continuous passive emergency signal to enable search parties to locate the 15 survivor. The signaling device 46 has the international distress signal 88 on an end portion of the streamer.

The survival craft 2 may be stowed inside a pack 90, as best shown in Figure 6A. The pack 90 includes straps 92 that can be worn around a user's shoulders. The straps 92 may be 20 also worn around the user's waist by unhooking the straps 92 from the clips 94. The clip 90 can also be attached to a vehicle such as boat or aircraft. The pack may be constructed with water-soluble adhesive such that pack will open upon hitting the water to allow the craft 2 to deploy automatically 25 when the gas cylinder valve is activated by the water.

The survival craft 2 is in a folded form when in the stowed position, as best shown in Figure 6B. The folded craft 2 is stowed within the pack 90. A strap 96 is secured to the front attaching ring 18 and is wrapped around the deflated craft 2 and 5 secured with a fastener 94, such as a VELCRO fastener. The fastener 94 may be water soluble to permit automatic deployment of the craft 2 when it hits the water.

While this invention has been described as having preferred design, it is understood that it is capable of further 10 modification, uses and/or adaptations following in general the principle of the invention and including such departures from the present disclosure as come within known or customary practice in the art to which the invention pertains, and as may be applied to the essential features set forth, and fall within 15 the scope of the invention or the limits of the appended claims.

I claim:

1. A water craft, comprising:
 - a) an inflatable elongate housing including substantially parallel top and bottom walls, said top wall including a flat surface configured to support a user lying in a prone face-down position; and
 - b) said housing being configured such that a user in the prone face-down position can paddle alternately with his hands toward a direction.
2. A water craft as in claim 1, and further comprising:
 - a) a covering removably secured to said housing, said covering being configured to cover the body of the user.
3. A water craft as in claim 1, and further comprising:
 - a) means for keeping said top and bottom walls from bulging when said housing is inflated.
4. A water craft as in claim 1, and further comprising:
 - a) a plurality of threads joining said top and bottom walls to each other.
5. A water craft as in claim 1, further comprising:
 - a) a plurality of honeycomb structures disposed within said housing and secured to said top and bottom walls.
6. A water craft as in claim 1, and further comprising:
 - a) a plurality of tubular structures disposed within said housing and secured to said top and bottom walls.
7. A water craft as in claim 1, wherein:

a) said top surface includes a layer of non-skid material.

8. A water craft as in claim 2, wherein:

a) said covering includes arm and body portions.

5 9. A water craft as in claim 2, wherein:

a) said covering includes a hood.

10. A water craft as in claim 9, wherein:

a) said hood includes a visor.

11. A water craft as in claim 1, and further comprising:

10 a) a water activated gas cylinder operably connected to said housing.

12. A water craft as in claim 1, and further comprising:

a) a streamer configured to float on water and secured to an end portion of said housing.

15 13. A water craft as in claim 12, wherein:

a) said housing is in a rolled-up position prior to deployment;

b) a strap disposed around said housing in said rolled-up position; and

20 c) said strap includes water soluble fastener.

14. A water craft as in claim 1, and further comprising:

a) a pack made from water soluble adhesive;

b) said housing is in a rolled-up position prior to deployment; and

25 c) said housing is disposed within said pack.

15. A water craft, comprising:

a) an inflatable elongate housing including top and bottom walls;

b) said top wall including a non-skid flat surface configured to support a user in a prone face-down position; and

5 c) said housing being configured such that the user lying in the prone face-down position on said flat surface can paddle alternately with both hands toward a direction.

16. A water craft as in claim 15, wherein:

a) said housing includes a front portion disposed at 10 an angle with respect to the water level.

17. A water craft as in claim 15, and further comprising:

v or multitude of fins by
a) a fin disposed underneath said housing.

18. A water craft as in claim 15, wherein:

a) said top and bottom walls include peripherical 15 edge portions; and

b) means for joining said edge portions together.

?→ a relief valve operably associated with said housing.

19. A water craft as in claim 15, and further comprising:

leash by
a) a ~~lease~~ operably secured to said housing and for

20 being secured to a body part of the user.

20. A water craft as in claim 15, and further comprising:

a) a compass disposed on said top wall visible to the user in the prone position face-down position.

21. A water craft as in claim 15, and further comprising:

25 a) a covering removably secured to said housing, said covering being configured to cover the body of the user.

22. A water craft as in claim 15, and further comprising:

a) a streamer configured to float on water and secured to an end portion of said housing.

23. A water craft, comprising:

5 a) an inflatable housing including top and bottom walls having opposing inner surfaces;

b) said top wall including a flat surface configured to support a user; and

c) a plurality of connectors secured to said inner 10 surfaces, said connectors being configured to maintain said top and bottom walls substantially flat when said housing is inflated.

24. A water craft as in claim 23, wherein:

a) said connectors include a plurality of threads.

15 25. A water craft as in claim 23, wherein:

a) said connectors include a plurality of honeycomb structures.

26. A water craft as in claim 23, wherein:

20 a) said connectors include a plurality of tubular structures.

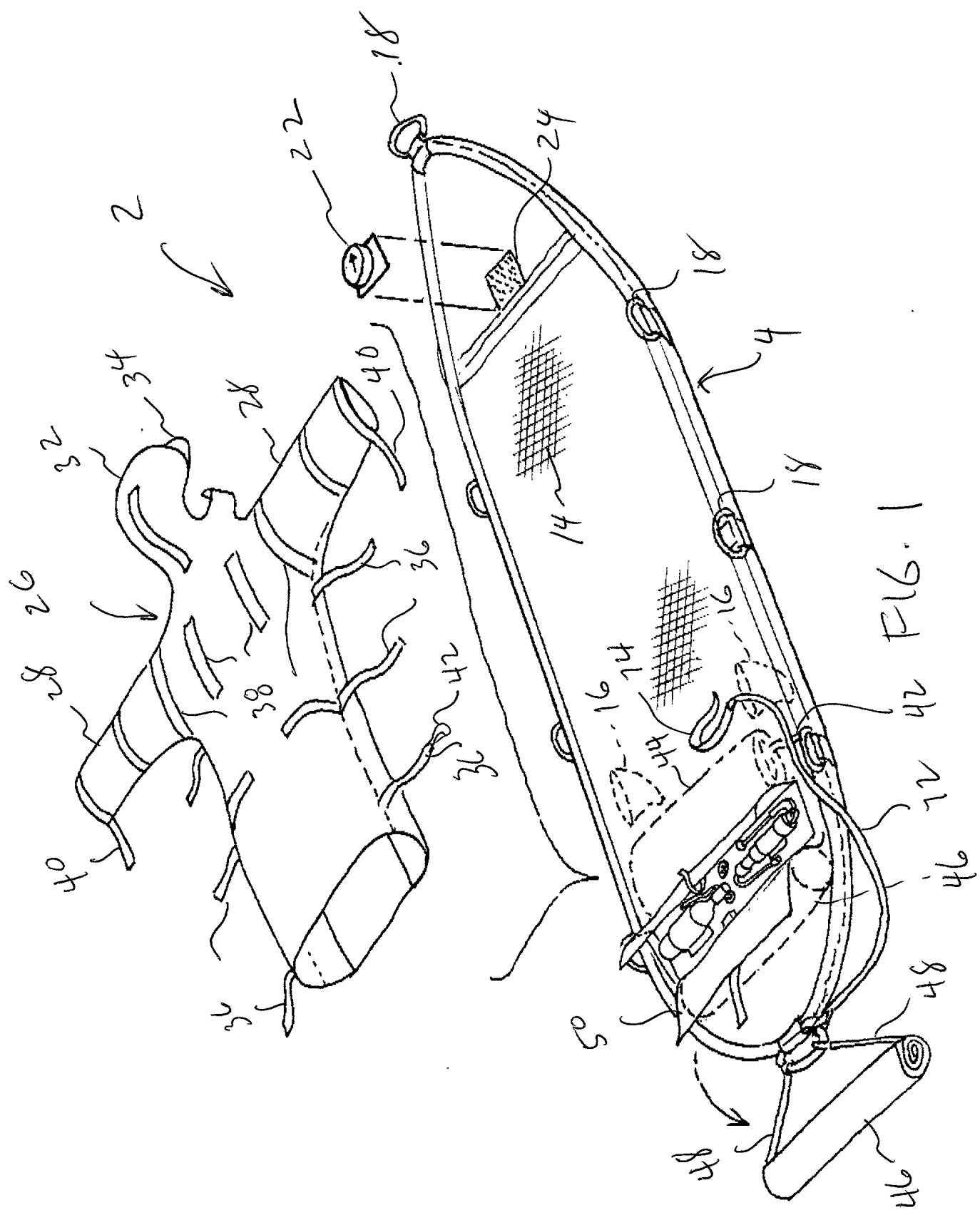
27. A water craft as in claim 23, wherein:

a) said top and bottom walls include peripherical edge portions; and

25 b) a seal tape operatively secured to said edge portions to join said edge portions together.

ABSTRACT

A water craft for survival or recreational purposes, comprises an inflatable elongate housing that provides a platform and has an internal supporting structure for rigidity and a fin^Y for stability and tracking purposes as the survivor paddles the water craft by arm motion. The craft is stowed in a compact pouch when not in use and inflated by compressed gases and/or a manual hand pump to sustain the requisite partial pressures of the inflatable water craft. A thermal protective covering with brightly colored pigmentation and retro-reflective and IR- reflective surfaces is provided to protect the survivor from the elements and enhance his visibility. A non-skid surface on the platform enables the survivor to lay on top of the water craft without slipping off. A bright orange colored elongate SEE/RESCUE (trademark) streamer is provided with the water craft for continuous passive emergency signaling purposes to enable search parties to locate the survivor. An attachable leg leash is provided to keep the water craft from separating from the survivor in rough seas and/or wind conditions. A compass is built into the craft to provide direction to the survivor's mobility. In addition to survivor applications, the water craft can be used for water recreational purposes, such as surfing and paddling.



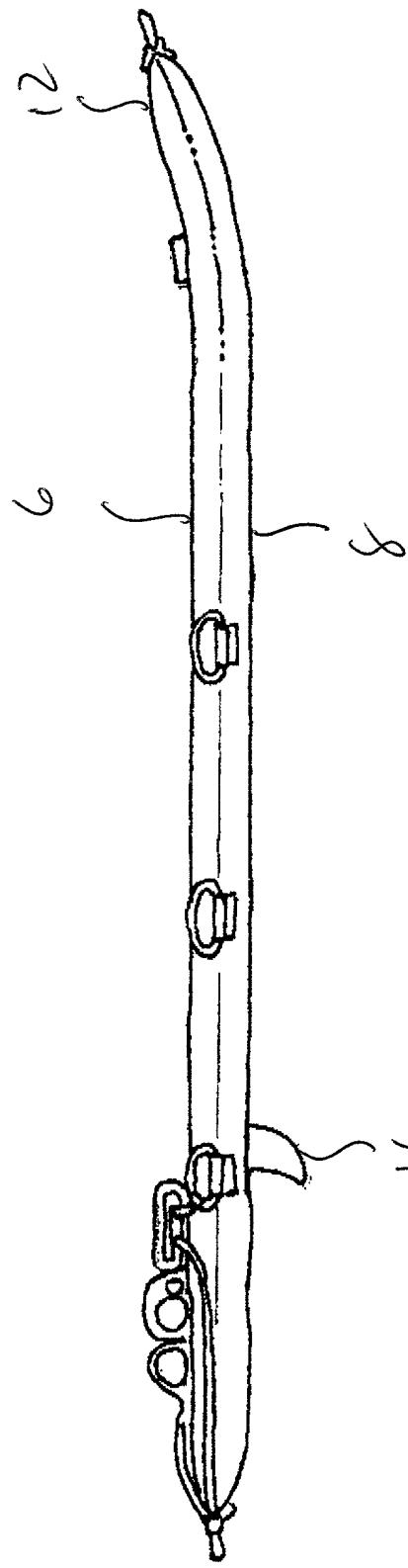
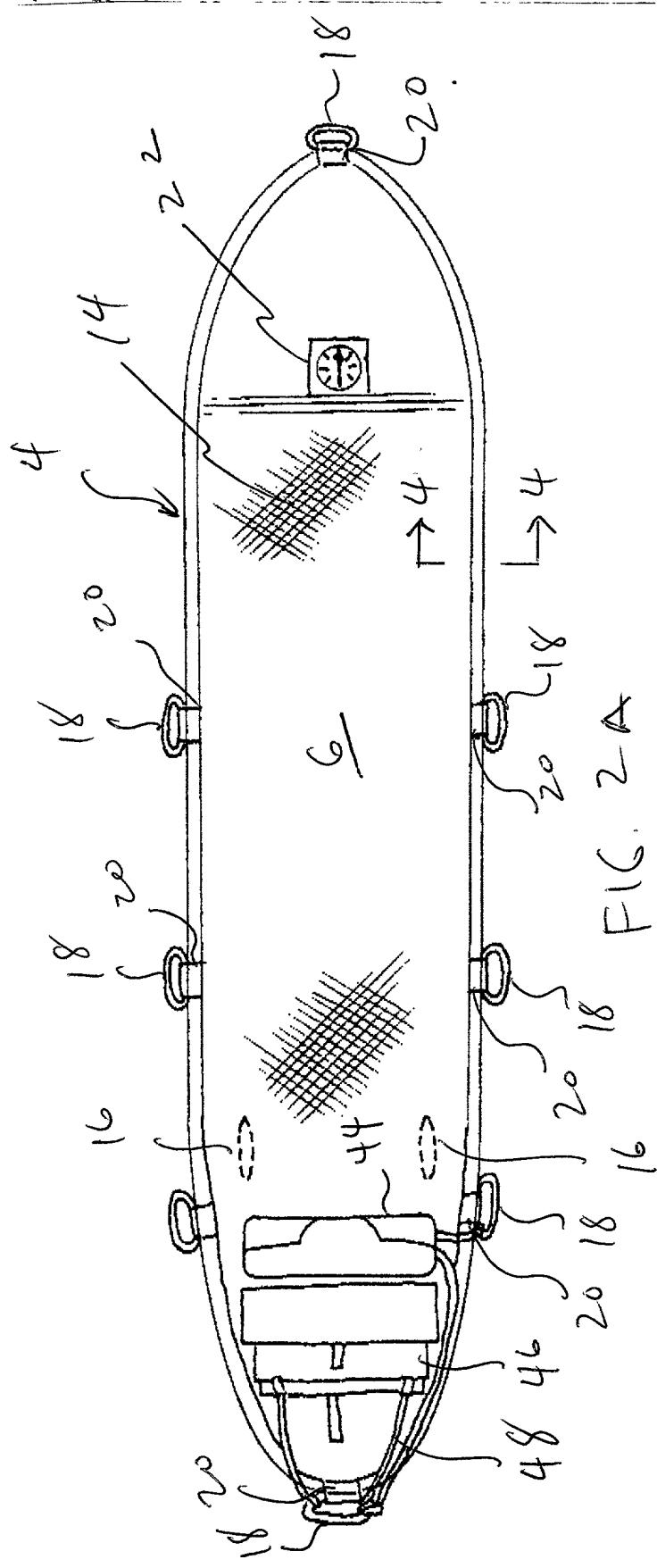


FIG. 2 B

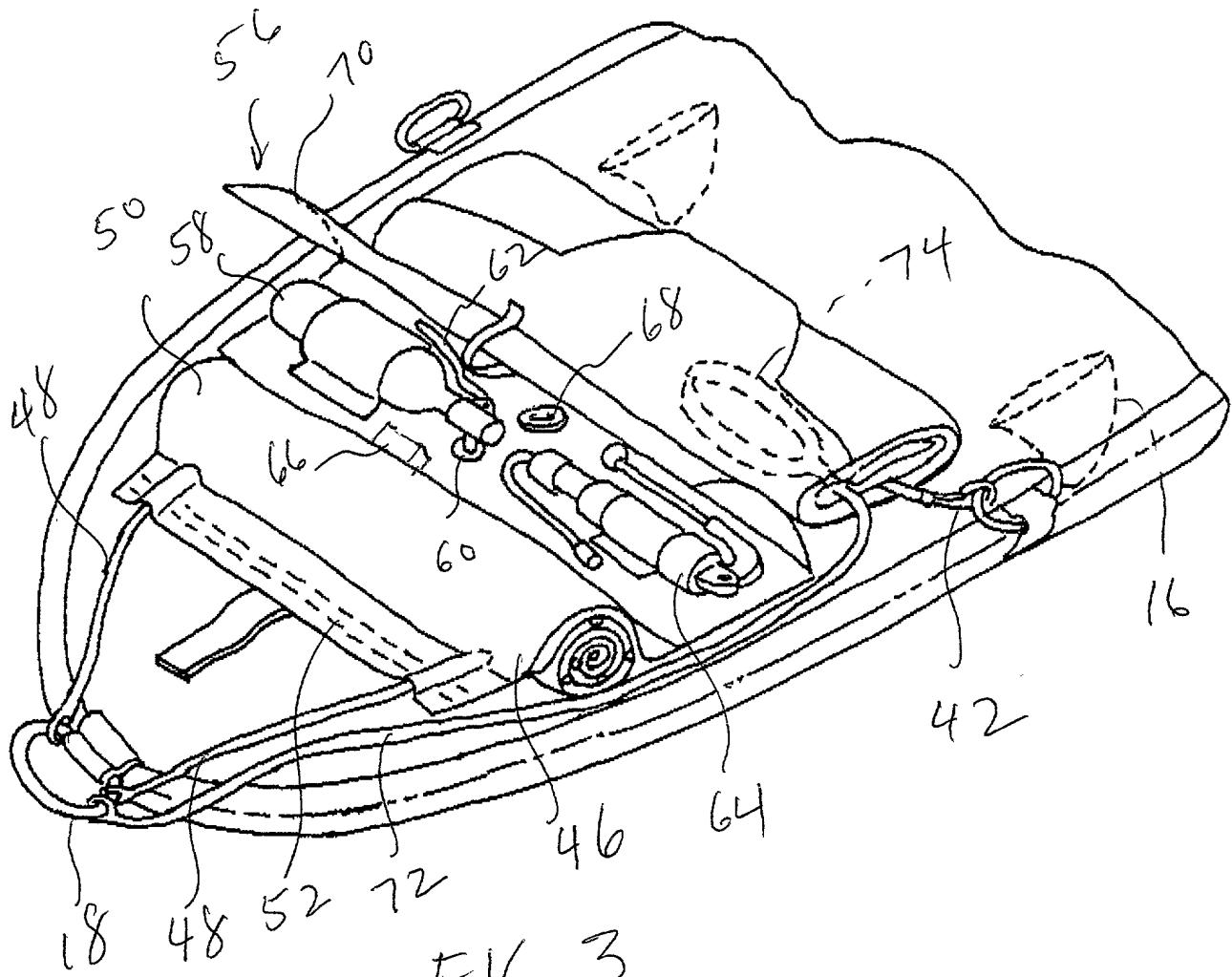


FIG. 3

FIG. 4A

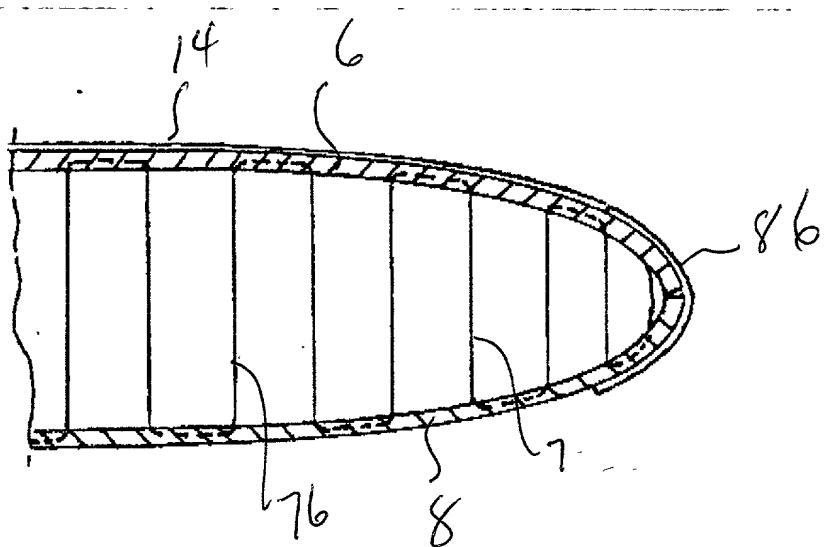


FIG. 4B

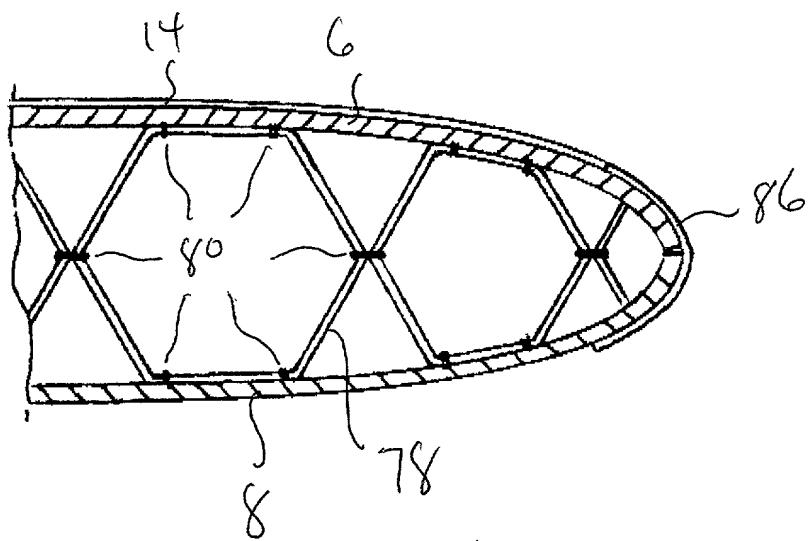
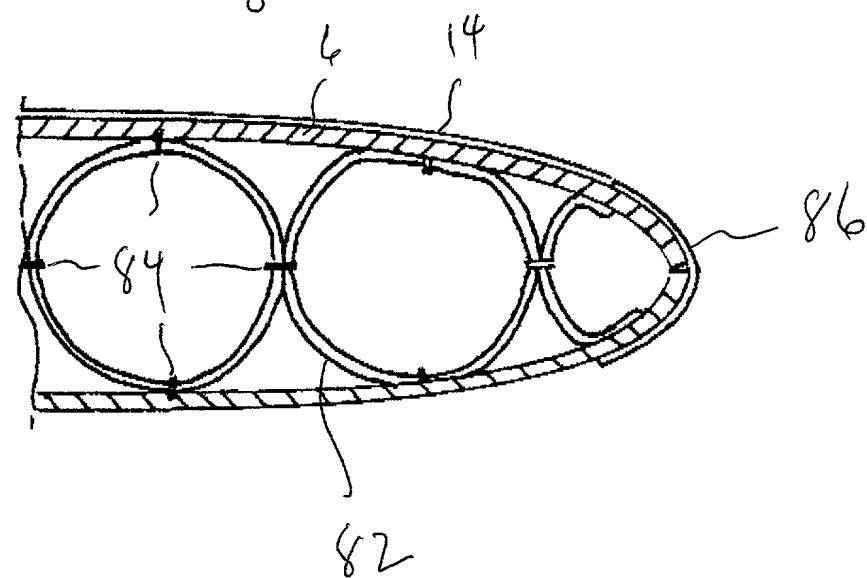


FIG. 4C



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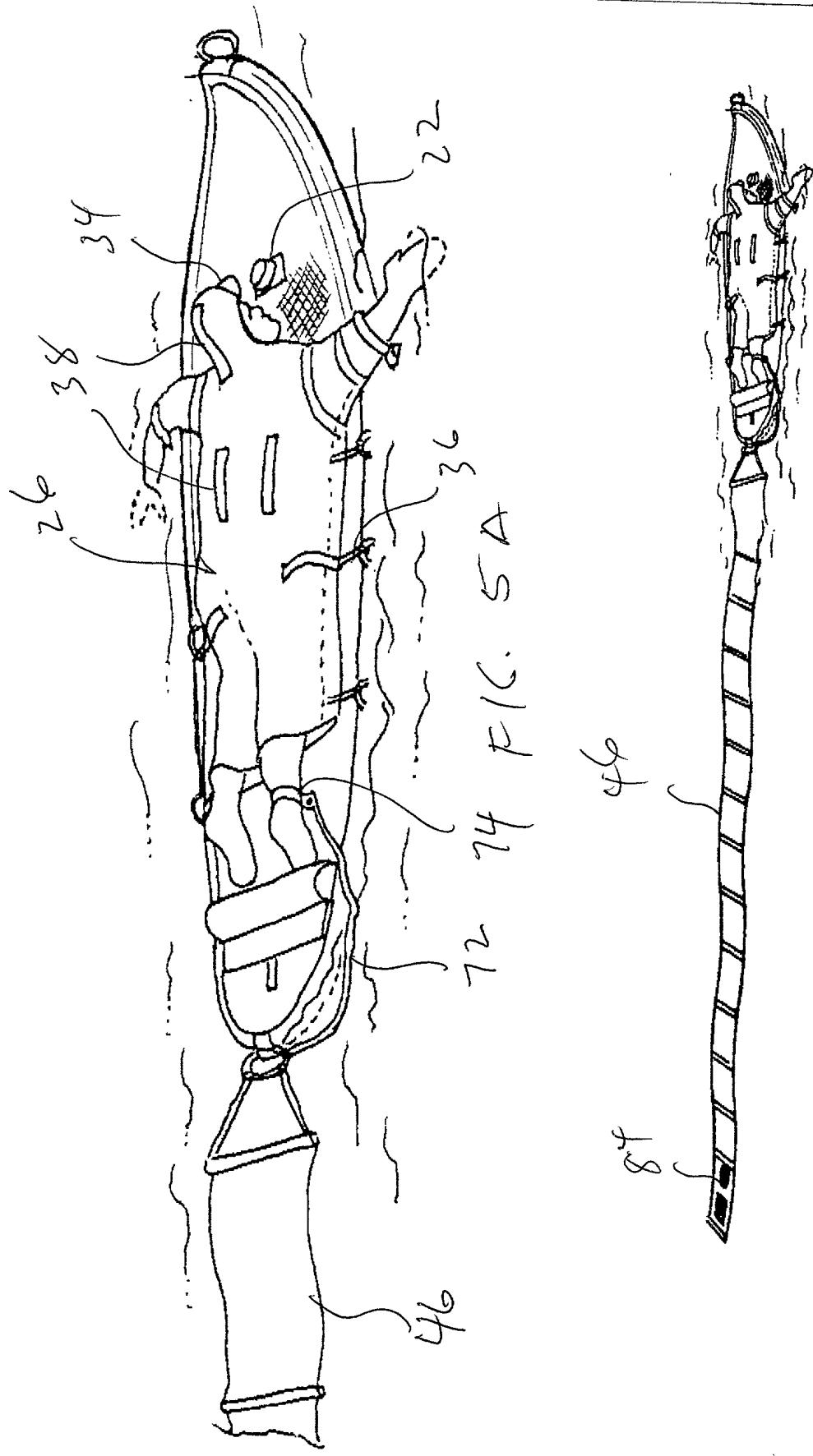


FIG. 5B

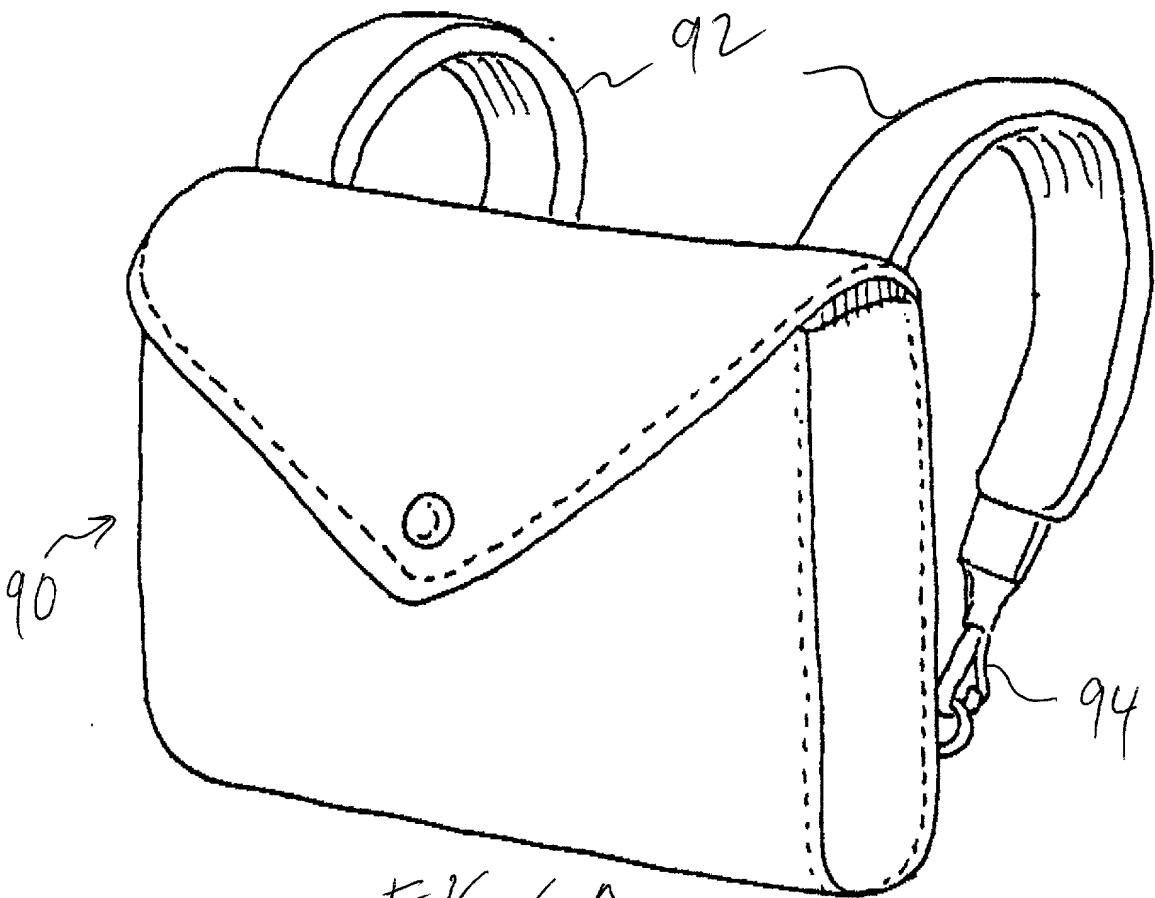


FIG. 6A

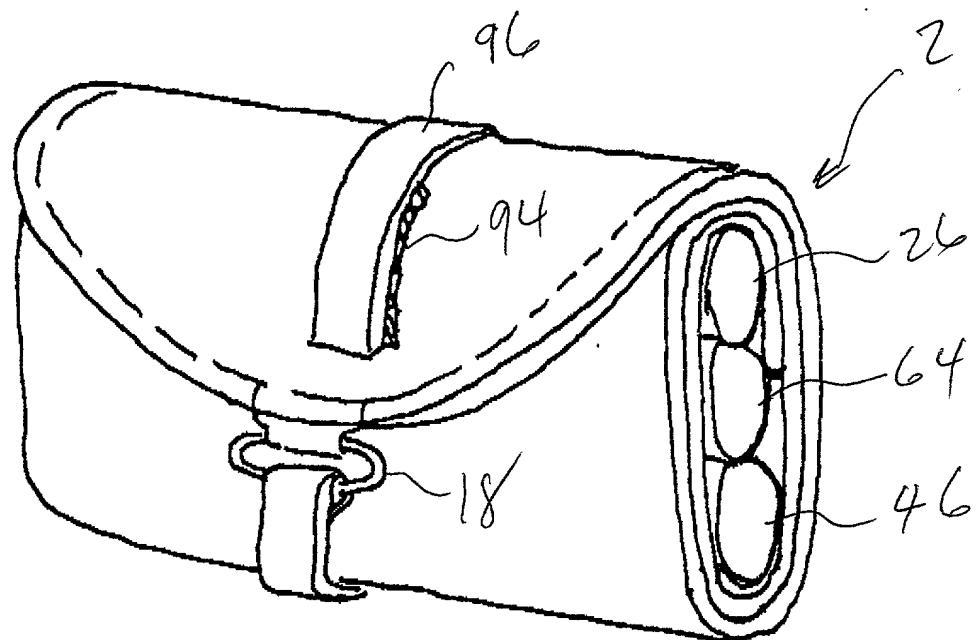


FIG. 6B

DECLARATION AND POWER OF ATTORNEY - ORIGINAL APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below beneath my name:

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which Letters Patent is sought on the invention entitled

**INFLATABLE TRANSPORTABLE WATER CRAFT FOR SURVIVAL
OR RECREATIONAL APPLICATIONS**

the specification of which _____ is attached hereto
(check one) _____ was filed on _____
as Application S.N. _____
and was amended on _____

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by an amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International Application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or invention certificate, or a PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

(Number)	(Country)	(Day/Month/Year Filed)	YES	NO
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(Number)	(Country)	(Day/Month/Year Filed)	YES	NO
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I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

60/065,162
(Application Ser. No.)

November 12, 1997
(Filing Date)

(Application Ser. No.)

(Filing Date)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Ser. No.) (Filing Date) (Status)
(patented, pending, abandoned)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

B. Edward Shlesinger, Jr., Reg. No. 17,225; George A. Arkwright, Reg. No. 20,158; George A. Garvey, Reg. No. 17,737; Josefino P. de Leon, Reg. No. 33,166; Terrence L. B. Brown, Reg. No. 32,685; Michael M. Zadrozny, Reg. No. 30,985; Brian J. Marton, Reg. Agent 30,292; and Donald Kolasch, Reg. No. 23,038;

SEND CORRESPONDENCE TO: SHLESINGER, ARKWRIGHT & GARVEY
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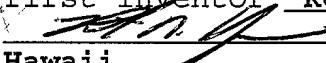
DIRECT TELEPHONE CALLS TO Josefino P. de Leon (703) 684-5600

The undersigned hereby authorizes the U.S. attorney(s) or agent(s) named herein to accept and follow instructions from _____ as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney(s) or agent(s) and the

undersigned. In the event of a change in the persons from whom instructions may be taken, the U.S. attorney(s) or agent(s) named herein will be so notified by the undersigned.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole or first inventor ROBERT N. YONOVER

Inventor's signature  Date 11/05/98

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